

JAWORSKI, MARK

From: McIver, Ann <AMcIver@citizensenergygroup.com>
Sent: Wednesday, June 03, 2015 9:29 AM
To: JAWORSKI, MARK
Cc: Cummings, Kraig; Havard, John E.; Gray, Mark
Subject: Requested Well Information and Request for Treatment as Confidential Information
Attachments: Drilling Log for Test Hole # 7 and # 8.pdf; Drilling Logs for Deep Rock Tunnel near Riverside Well # 29.pdf; INDNR Well Reference #'s.txt; Riverside 17_18_19 Static and Pumping Water Levels - Limestone Fracture Interconnection.xlsx; Riverside Well Abandonment Logs.pdf; Riverside Well Survey Analysis.pdf; RS_WR Well Data Information.xlsx; White River Test Drilling Logs.pdf; White River Well Drilling Logs.pdf

Mark,

Attached is information that Kraig was able to find for the active wells. In accordance with Indiana's Access to Public Records Act, IC 5-14-3-4(b)(19), Citizens Energy Group requests that you **hold the attached information as confidential** to the extent practicable and possible through the CERCLA process. This provision provides that access to certain public records may be withheld – specifically,

(19) A record or a part of a record, the public disclosure of which would have a reasonable likelihood of threatening public safety by exposing a vulnerability to terrorist attack. A record described under this subdivision includes: * * * (H) the location of community drinking water wells and surface water intakes;

To the extent that the attached information may meet this if made available in the public realm (i.e., posted to the Virtual File Cabinet), Citizens would respectfully request that you hold all of the attached data as confidential, as outlined in the Access to Public Records Act that governs both of our actions.

If you have questions or concerns, please let me know.

Ann

Ann W. McIver, QEP
Director, Environmental Stewardship
Citizens Energy Group
2020 North Meridian Street
Indianapolis, IN 46202
P/F: 317.927.4393
M: 317.695.2154
amciver@citizensenergygroup.com

Owner
 Citizens Energy Group

Contact Person
 Mr. Bob Streib

City/State
 Indianapolis, IN

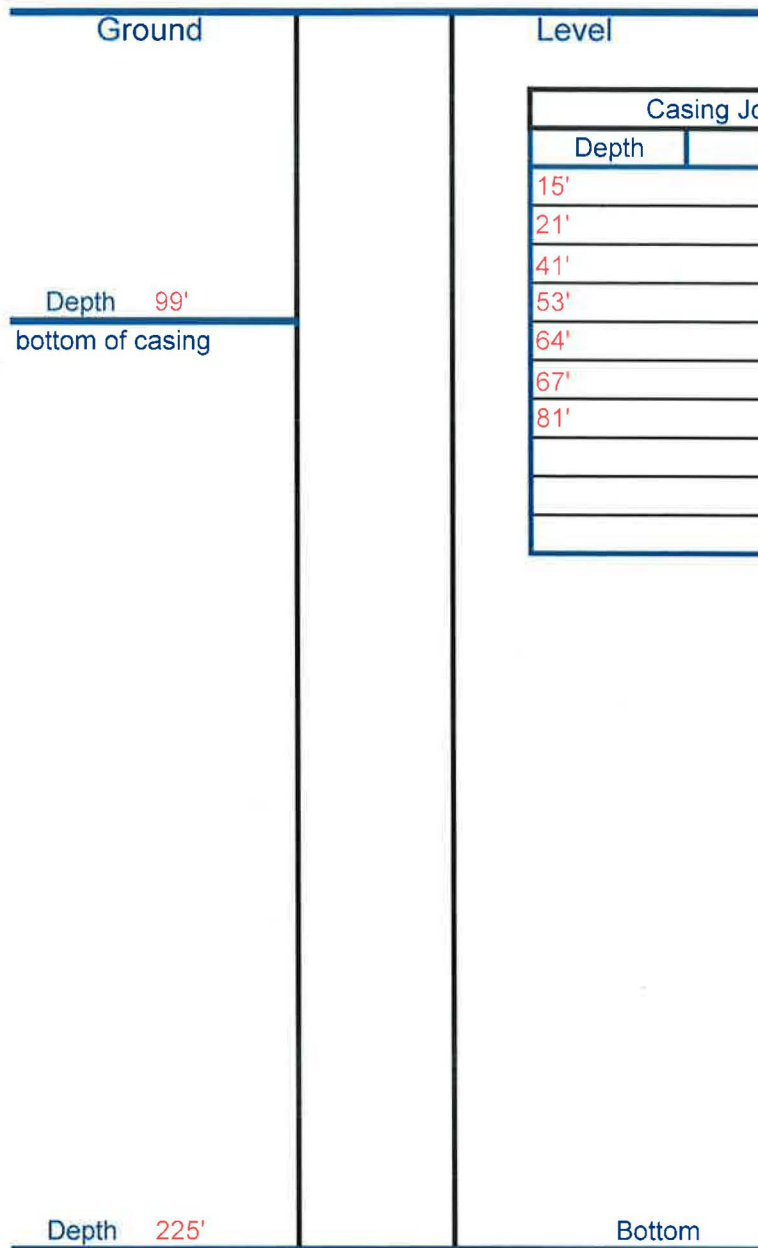
Phone Number
 317-710-0629

Date
 7/22/2011

Well Location
 Behind building at 1430
 Indiana Avenue.

Well Number
 Riverside #2

Casing extends 6" above ground level.



Casing Joints		
Depth		Condition
15'		Good
21'		Good
41'		Good
53'		Good
64'		Good
67'		Good
81'		Good

Static Level	29'
Tape made	Yes
Well Cleared	No
Job Number	TEO1126
Special Notes	

The fractures in this well are at 103' and 106'. There are also cracks in the limestone at 137' and 143'. It appears that there has been a pumped dropped in this well in the past, that is now stuck in the bottom of the well. This is the post rehabilitation video survey.

**RTMAN****Drilling & Water Services**

Research - Design - Construction - Maintenance

241 N. 300 W. • Kokomo, IN 46901 • 765-459-4125 FAX 765-459-8750

Reference 140 Page 3**Well Survey
Analysis****Owner**

Citizens Water

Contact Person

Mr. Bob Streib

City/State

Indianapolis, IN

Phone Number

317-966-3626

Date

3/29/2012

Well LocationInside fence, next to
Riverside Pumping
Station.**Well Number**

Riverside #8

Casing extends **18"** above ground level.

Ground

Level

Depth **79'**
bottom of casing

Casing Joints

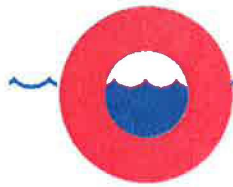
Depth	Condition
14'	Good
27'	Good
37'	Good
48'	Good
59'	Good

Depth **277'**

Bottom

Static Level	29'
Tape made	Yes
Well Cleared	Yes
Job Number	TEO1203
Special Notes	

This is the post-rehabilitation video inspection. We did notice that the hole has a large crevice at 84'. There are also fractures at 98', 108', and 135'.

**RTMAN****Drilling & Water Services**

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Reference 140 Page 4**Well Survey
Analysis****Owner**

Citizens Water

Contact Person

Mr. Bob Streib

City/State

Indianapolis, IN

Phone Number

317-966-3626

Date

3/27/2012

Well LocationOutside fence at
Riverside Pumping
Station.**Well Number**

Riverside #9

Casing extends 2' above ground level.

Ground

Level

Depth 78'

bottom of casing

Casing Joints

Depth	Condition
13'	Good
17'	Good
27'	Good
37'	Good
47'	Good
57'	Good

Depth 244'

Bottom

Static Level	<u>28'</u>
Tape made	<u>Yes</u>
Well Cleared	<u>Yes</u>
Job Number	<u>TEO1203</u>
Special Notes	

This is the post-rehabilitation video inspection. We noticed a bedding plain at 84'. This hole is also fractured at 95', 97', 106', and 111'. There are holes in the limestone from 184' - 187'.

Owner
 Citizens Energy Group

Contact Person
 Mr. Bob Streib

City/State
 Indianapolis, IN

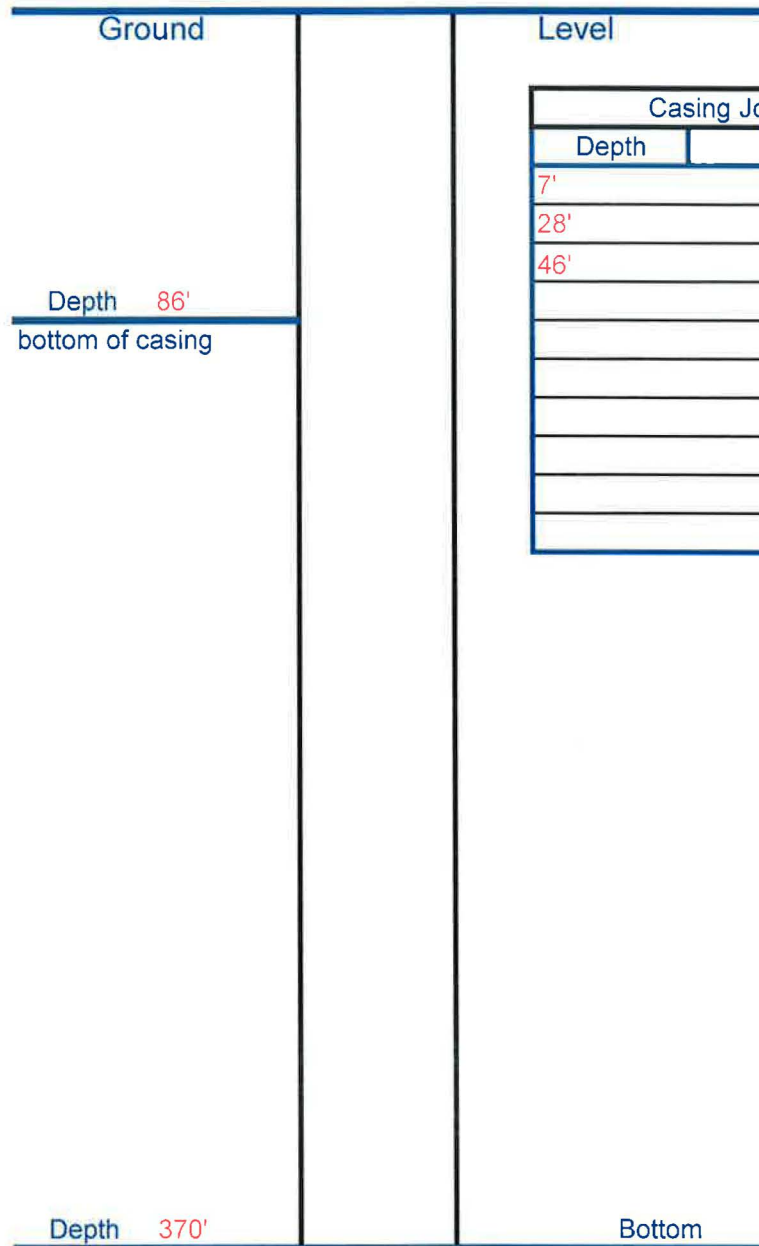
Phone Number
 317-710-0629

Date
 6/24/2011

Well Location
 In vacant parking lot at
 16th Street & Riverside
 Avenue.

Well Number
 Riverside #17

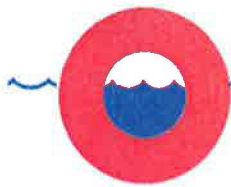
Casing extends 2' 6" above ground level.



Casing Joints		
Depth		Condition
7'		Good
28'		Good
46'		Good

Static Level	20'
Tape made	Yes
Well Cleared	Yes
Job Number	TEO1126
Special Notes	

There are large bedding plains at 87' and 90'. There is a small fracture at 98' and 146'. From 270' down to 330' there are lots of small fractures and cracks, but no water movement. This is the pre-rehabilitation video survey.

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Research - Design - Construction - Maintenance

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Reference 140 Page 6**Well Survey
Analysis****Owner**

Citizens Water

Contact Person

Mr. Bob Streib

City/State

Indianapolis, IN

Phone Number

317-966-3626

Date

5/24/2012

Well LocationJust west of Riverside
Avenue in alley, 1/2
block north of 16th St.**Well Number**

Riverside #18

Casing extends 2' above ground level.

Ground

Level

Depth 86'
bottom of casing

Casing Joints

Depth	Condition
8'	Good
29'	Good
64'	Good

Depth ??

Bottom

Static Level	37'
Tape made	Yes
Well Cleared	Yes
Job Number	TEO1203
Special Notes	

This is the post-rehabilitation video inspection. We noticed crevices at 87' and 91'. We could not continue to the bottom as the water was too cloudy.

Owner
 Citizens Energy Group

Contact Person
 Mr. Bob Streib

City/State
 Indianapolis, IN

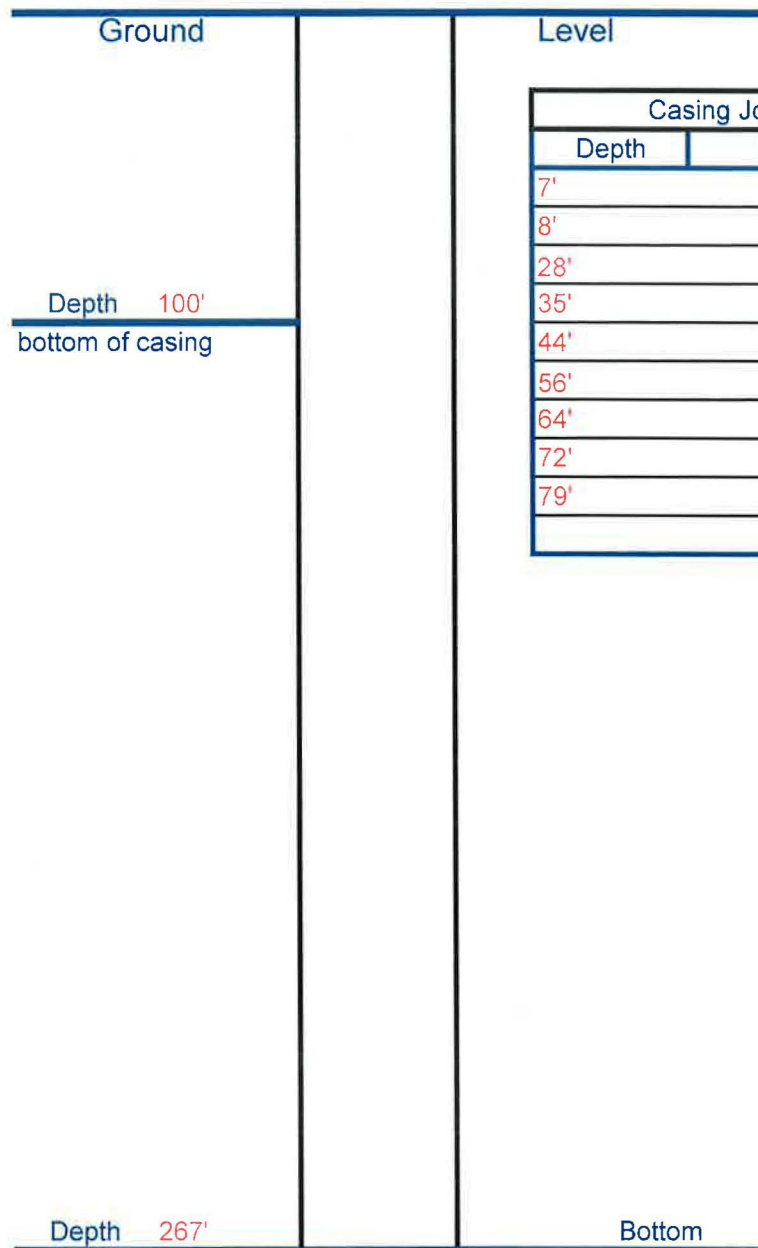
Phone Number
 317-710-0629

Date
 6/24/2011

Well Location
 At bus garage at Gent Street and Indiana Avenue.

Well Number
 Riverside #22

Casing extends 2' above ground level.



Casing Joints		
Depth		Condition
7'		Good
8'		Good
28'		Good
35'		Good
44'		Good
56'		Good
64'		Good
72'		Good
79'		Good

Static Level	15'
Tape made	Yes
Well Cleared	Yes
Job Number	TEO1126

Special Notes

There are large bedding plains at 103' and 105'. From 133' down to 137' there are some small fractures and cracks with some water movement. This is the pre-rehabilitation video survey.

Well Survey Analysis

Owner

Citizens Energy Group

Contact Person

Mr. Bob Streib

City/State

Indianapolis, IN

Phone Number

317-710-0629

Date

7/22/2011

Well Location

East of office at 1220
Waterway, in front yard.

Well Number

Riverside #26

Casing extends 10' below ground level.

Ground

Level

Depth 80'
bottom of casing

Casing Joints		
Depth		Condition
13'		Good
20'		Good
29'		Good
39'		Good
49'		Good
64'		Good

Depth 267'

Bottom

Static Level	38'
Tape made	Yes
Well Cleared	No
Job Number	TEO1126

Special Notes

There are fractures in this well at 83', 91', 103', and 105'. There are holes in the bedrock from 168' down to 184'. This is the post rehabilitation video survey.

**RTMAN****Drilling & Water Services**

Research - Design - Construction - Maintenance

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Reference 140 Page 9**Well Survey
Analysis****Owner**

Citizens Water

Contact Person

Mr. Bob Streib

City/State

Indianapolis, IN

Phone Number

317-966-3626

Date

5/22/2012

Well LocationAt the point on
Waterway Blvd. in front
of Servas.**Well Number**

Riverside #27

Casing extends **9'** below ground level.

Ground

Level

Depth **98'**
bottom of casing

Casing Joints

Depth	Condition
14'	Good
22'	Good
32'	Good
42'	Good
52'	Good
62'	Good
77'	Good

Depth **??**

Bottom

Static Level	29'
Tape made	Yes
Well Cleared	Yes
Job Number	TEO1203
Special Notes	

This is the post rehabilitation video inspection. There are large bedding plains at 101' & 103'. The water was too cloudy to proceed with the camera past 195'.

Well Survey Analysis

Owner

Citizens Energy Group

Contact Person

Mr. Kraig Cummings

City/State

Indianapolis, IN

Phone Number

317-263-6452

Date

9/6/2012

Well Location

East of R.S. #7, along
levee.

Well Number

Riverside #28

Casing extends 11' below ground level.

Ground

Level

Depth ??
bottom of casing

Casing Joints

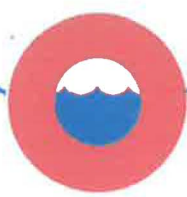
Depth	Condition
15'	Good
18'	Good
29'	Good
37'	Good
76'	Good

Depth 247'

Bottom

Static Level	19'
Tape made	Yes
Well Cleared	No
Job Number	TEO1203
Special Notes	

There are very large fractures at 100', and a bedding plane at 111'. The bottom of the casing is not visible in this video due to build-up on the walls of the hole.

**RTMAN****Drilling & Water Services**

Research - Design - Construction - Maintenance

241 N. 300 W. • Kokomo, IN 46901 • 765-459-4125 FAX 765-459-8750

Reference 140**Page 11****Well Survey
Analysis****Owner**Veolia Water
Indianapolis, LLC**Contact Person**

Mr. Bob Streib

City/State

Indianapolis, IN

Phone Number

317-710-0629

Date

10/2/2009

Well LocationBehind Riverside
Pumping Station.**Well Number**

Riverside #29

Casing extends 8' below ground level in pit.

Ground

Level

Depth 78'
bottom of casing

Casing Joints

Depth	Condition
13'	Good
22'	Good
32'	Good
42'	Good
52'	Good
63'	Good

Depth 285'

Bottom

Static Level	<u>47'</u>
Tape made	<u>Yes</u>
Well Cleared	<u>Yes</u>
Job Number	<u>TEO0938</u>
Special Notes	

This is the post-rehabilitation video. At 9' there is a vent hole in the casing. We noticed large crevices at 87', 98', and 108'. There is black silty material at 285'.

INDIANAPOLIS WATER COMPANY WELL SUMMARY SHEET							
GENERAL INFO		WELL DATA					
WELLFIELD	WELL #	YEAR	DEPTH	DIAMETER	S&G OR LS	LENGTH	MATERIAL
RIVERSIDE	RS 2	Drilled between 1915 and 1920	225'	10"	Limestone	-----	Limestone
RIVERSIDE	RS 3		197'	10"	Limestone	-----	Limestone
RIVERSIDE	RS 7		196'	10"	Limestone	-----	Limestone
RIVERSIDE	RS 8		268'	10"	Limestone	-----	Limestone
RIVERSIDE	RS 9		251'	10"	Limestone	-----	Limestone
RIVERSIDE	RS 17		391'	10"	Limestone	-----	Limestone
RIVERSIDE	RS 18		400'	10"	Limestone	-----	Limestone
RIVERSIDE	RS 19		392'	10"	Limestone	-----	Limestone
RIVERSIDE	RS 22		278'	10"	Limestone	-----	Limestone
RIVERSIDE	RS 26		285'	10"	Limestone	-----	Limestone
RIVERSIDE	RS 27		416'	10"	Limestone	-----	Limestone
RIVERSIDE	RS 28		180'	10"	Limestone	-----	Limestone
RIVERSIDE	RS 29		290'	10"	Limestone	-----	Limestone
WHITE RIVER	WR 3	1936	70'	38"	Gravel Pack	35'	Steel-Shutte
WHITE RIVER	WR 6	1967	68'-3"	26"	Gravel Pack	Well Abandoned, S	
WHITE RIVER	WR 7	1967	77'	36"	Gravel Pack	20'	SS-Shutter
WHITE RIVER	WR 8	1967	77'	36"	Gravel Pack	20'	SS-Shutter
WHITE RIVER	WR 9	1974	79'-6"	30"	Gravel Pack	20'	SS-Shutter

SCREEN DATA			
INTERVAL	DIAMETER	SLOT SIZE	COMMENTS
-----	10"	-----	
-----	10"	-----	Geothermal Well for Waterway G.O.
-----	10"	-----	
-----	10"	-----	
-----	10"	-----	
-----	10"	-----	
-----	10"	-----	
-----	10"	-----	
-----	10"	-----	
-----	10"	-----	
-----	10"	-----	
-----	10"	-----	
-----	10"	-----	
35'-70'	38"	#4	DNR Ref # 177422
Structure Demolished			DNR Variance # 12-49-1460
57'-77'	26"	#4	DNR Ref # 177486
57'-77'	26"	#4	DNR Ref # 177481
59.5'-79.5'	30"	#4	DNR Ref # 177501